

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P382869

Luminaire Tested: **GLEON-SA2B-735-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382869
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2B-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11347.2 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

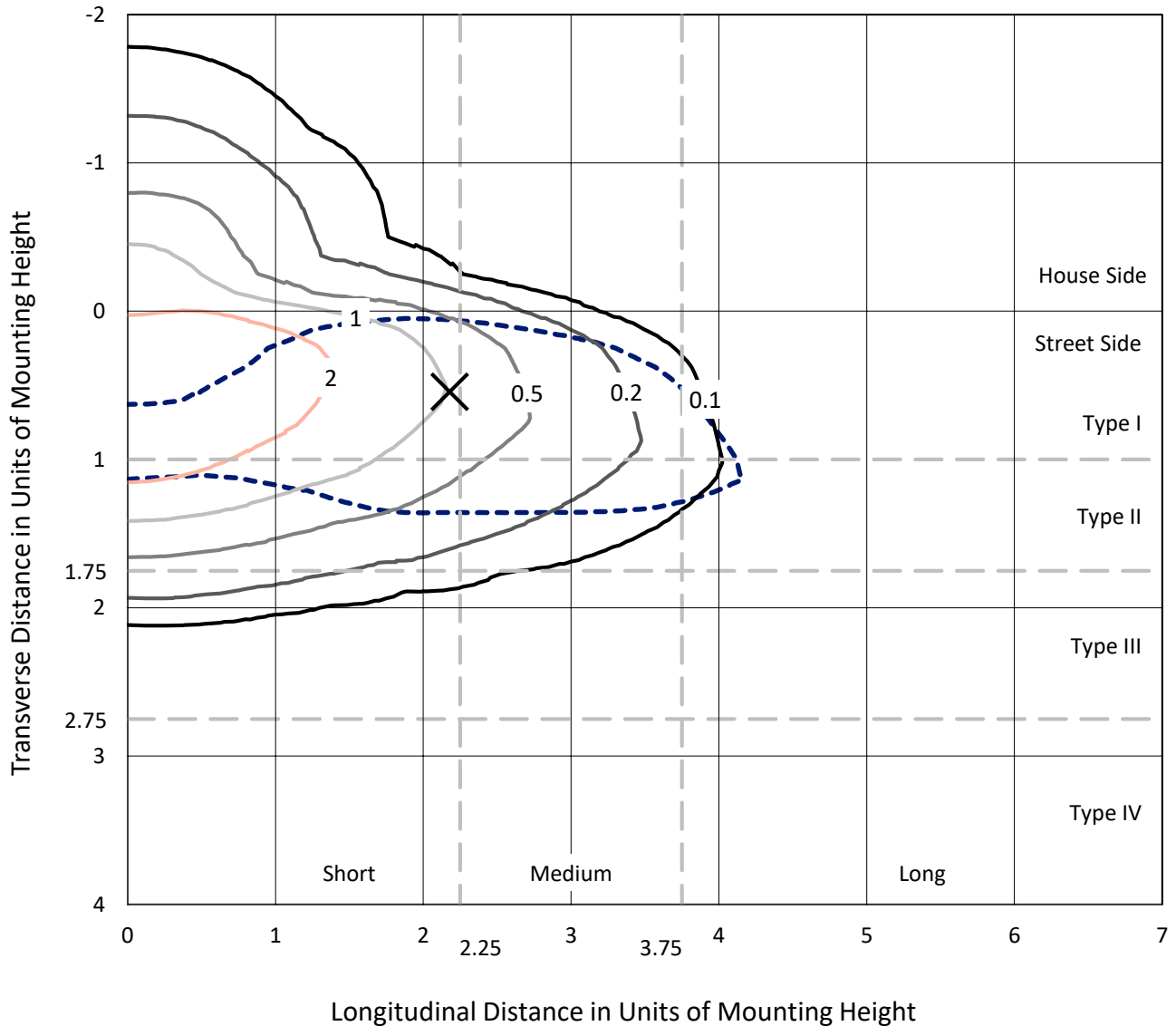




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Iso-Footcandle Lines of Horizontal Illumination

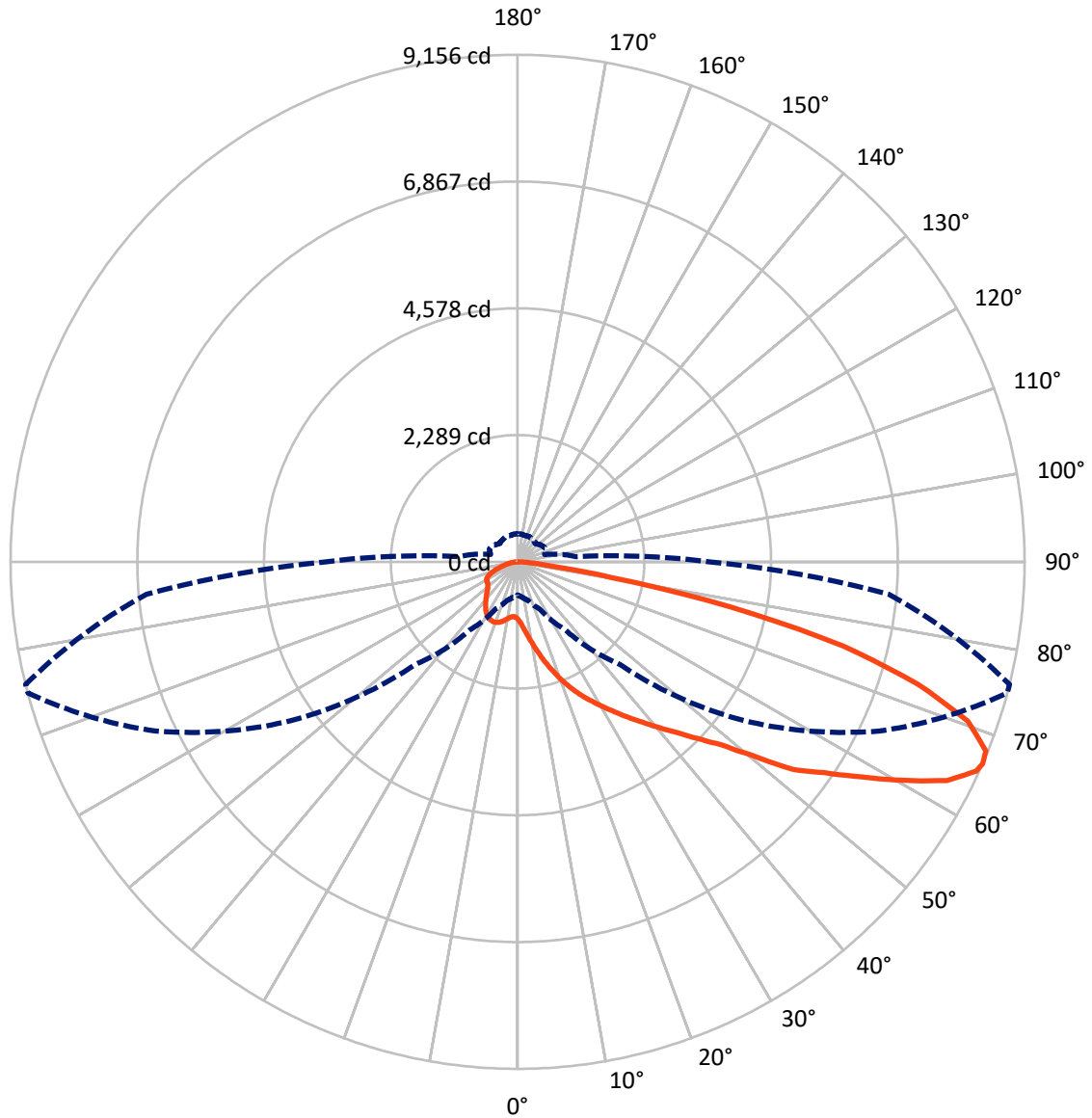
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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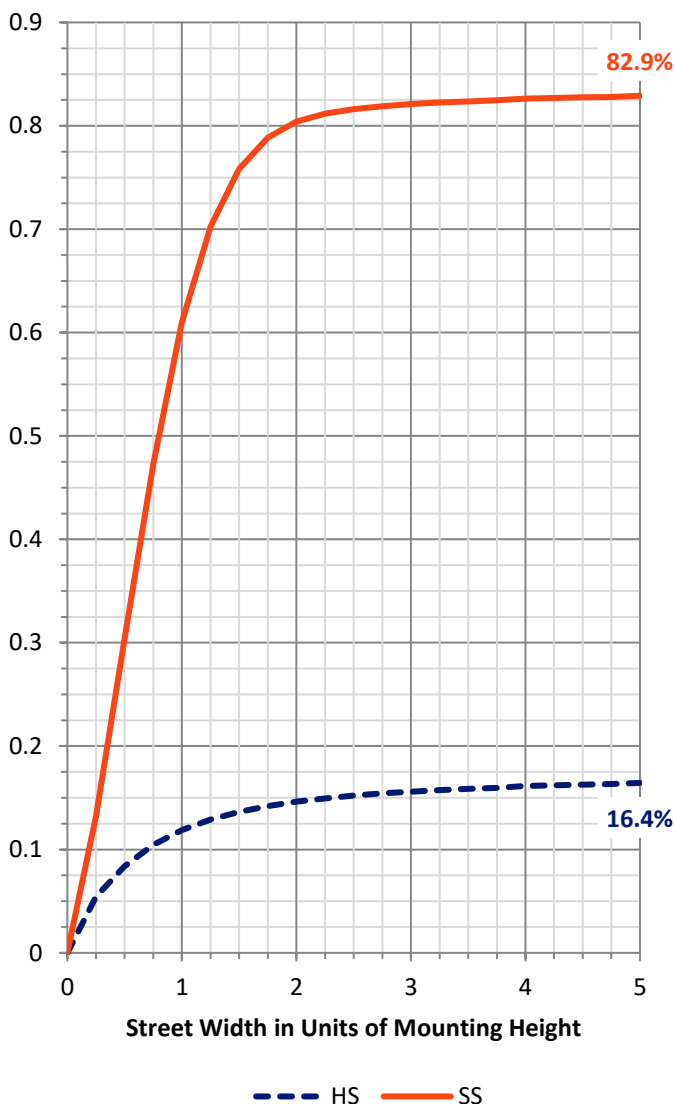
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1909.3	0.0	1909.3
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	9437.8	0.0	9437.8
	% Fixture	83.2	0.0	83.2
Total	Lumens	11347.2	0.0	11347.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.3	1.1
10°-20°	494.8	4.4
20°-30°	961.6	8.5
30°-40°	1569.6	13.8
40°-50°	2144.4	18.9
50°-60°	2497.8	22.0
60°-70°	2239.3	19.7
70°-80°	1131.7	10.0
80°-90°	182.7	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	11347.2	100.0
0°-180°	11347.2	100.0

Coefficient of Utilization



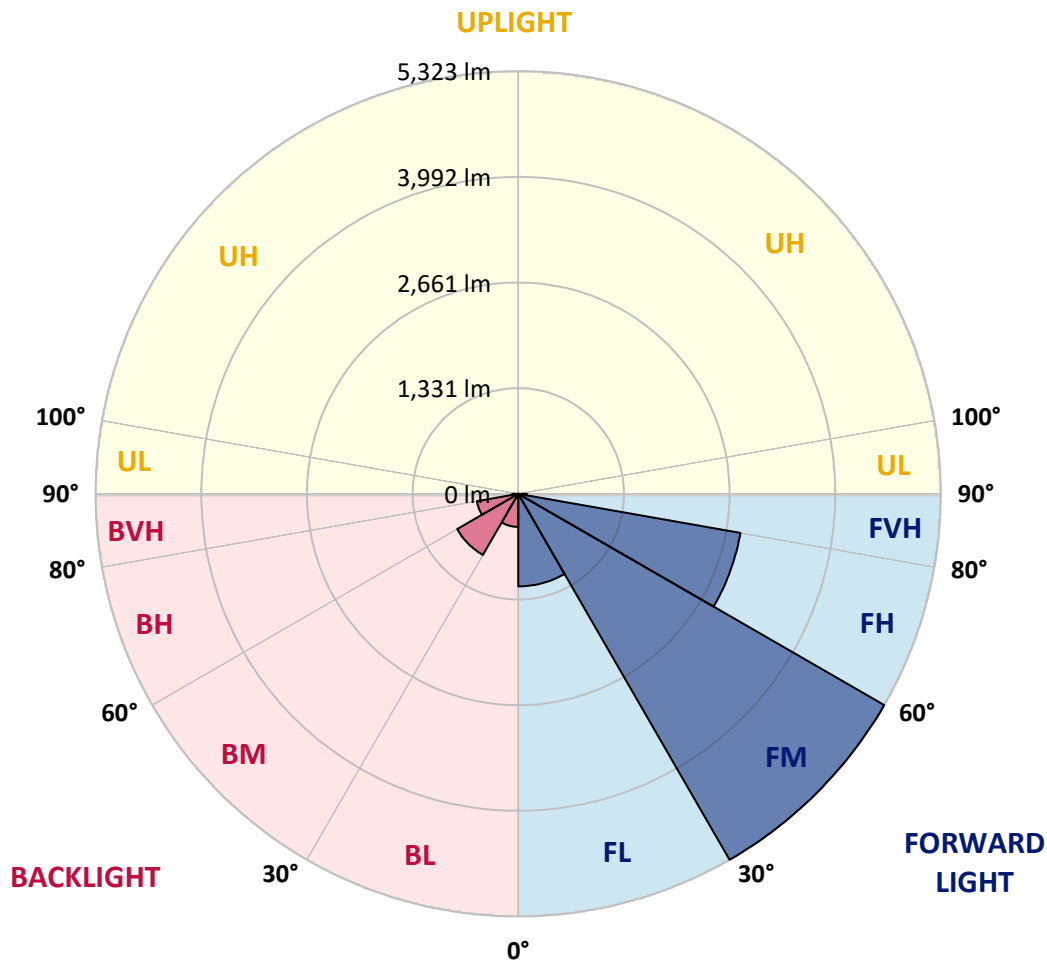
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1165.3	10.3			
FM (30°-60°)	5322.6	46.9			
FH (60°-80°)	2842.0	25.0			G2/5000
FVH (80°-90°)	107.9	1.0			G2/225
BL (0°-30°)	416.4	3.7	B1/500		
BM (30°-60°)	889.1	7.8	B1/1000		
BH (60°-80°)	529.0	4.7	B2/1000		G2/1000
BVH (80°-90°)	74.8	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1036.3	1036.3	1036.3	1036.3	1036.3	1036.3	1036.3	1036.3	1036.3	1036.3	1036.3
2.5°	1375.6	1354.8	1352.9	1322.5	1315.5	1257.4	1214.6	1169.9	1119.1	1109.1	1069.0
5°	1767.1	1765.1	1738.5	1688.8	1650.0	1550.6	1452.3	1348.3	1234.3	1215.8	1125.6
7.5°	2119.1	2116.0	2095.6	2042.0	1985.9	1863.7	1723.5	1564.0	1379.1	1351.8	1202.3
10°	2386.4	2385.3	2378.3	2339.1	2291.3	2174.2	2019.3	1801.7	1547.5	1510.0	1298.2
12.5°	2593.0	2595.3	2599.9	2586.0	2563.2	2463.5	2304.8	2053.6	1727.0	1690.0	1404.9
15°	2732.8	2739.7	2763.6	2783.3	2795.2	2733.9	2580.2	2311.4	1928.0	1883.8	1523.2
17.5°	2803.3	2810.9	2852.2	2911.6	2966.2	2960.1	2838.0	2557.1	2121.0	2078.3	1650.3
20°	2864.1	2869.9	2916.1	2987.4	3084.1	3126.8	3058.3	2793.6	2332.5	2281.6	1785.1
22.5°	3040.6	3047.9	3061.7	3102.2	3187.8	3266.3	3233.2	3017.5	2526.3	2478.9	1913.0
25°	3381.1	3390.0	3359.9	3325.6	3341.8	3396.5	3402.7	3221.7	2722.7	2669.3	2050.5
27.5°	3791.4	3804.1	3752.8	3664.6	3587.6	3566.4	3559.1	3388.8	2910.3	2848.4	2186.5
30°	4193.2	4215.2	4148.5	4034.1	3892.7	3793.3	3719.8	3552.5	3095.3	3035.9	2314.8
32.5°	4585.7	4576.9	4480.2	4368.4	4202.8	4078.4	3900.4	3728.2	3303.3	3235.1	2442.3
35°	4854.6	4857.6	4767.9	4635.4	4477.5	4381.9	4142.3	3917.7	3515.6	3452.8	2587.2
37.5°	5083.5	5069.2	4967.5	4843.8	4707.9	4667.0	4425.5	4126.6	3745.6	3677.0	2741.3
40°	5159.7	5143.2	5076.5	4987.5	4878.5	4875.0	4737.9	4363.1	4005.6	3937.7	2915.0
42.5°	5113.5	5092.3	5064.9	5040.7	5007.2	5022.5	5031.4	4640.4	4291.4	4215.5	3116.1
45°	4942.8	4910.8	4930.1	4982.8	5055.7	5142.7	5296.4	4947.4	4611.5	4548.0	3352.3
47.5°	4680.5	4651.6	4711.7	4824.6	5022.5	5242.9	5547.3	5286.4	4993.7	4930.5	3688.6
50°	4311.4	4319.9	4405.8	4611.2	4910.5	5289.1	5856.2	5735.3	5549.1	5490.3	4147.3
52.5°	3705.9	3707.4	3949.3	4286.4	4711.7	5265.3	6027.6	6308.8	6307.7	6236.4	4584.1
55°	3143.4	3177.7	3369.1	3817.2	4389.6	5169.7	6147.4	6587.7	6805.8	6722.1	4991.3
57.5°	2594.1	2614.1	2795.6	3245.5	3930.0	4915.0	6270.3	6922.5	7379.7	7327.0	5497.5
60°	1969.3	2000.1	2187.6	2603.3	3342.2	4463.2	6281.9	7271.8	8065.8	8012.7	6062.7
62.5°	1278.2	1331.4	1507.0	1896.4	2631.1	3813.3	6013.7	7500.4	8716.1	8697.2	6564.2
65°	734.6	774.7	896.8	1197.3	1815.2	2997.4	5376.1	7412.5	9116.3	9105.5	6751.9
66°	600.2	625.3	718.8	935.7	1497.7	2632.3	5005.6	7227.2	9156.0	9156.4	6730.2
67.5°	480.0	491.2	533.1	669.9	1105.2	2086.4	4343.4	6818.5	9106.7	9120.2	6591.2
70°	397.2	403.0	416.0	449.2	603.3	1258.1	3083.0	5756.4	8611.7	8622.1	6048.4
72.5°	356.3	359.8	364.8	369.5	425.7	703.0	1882.9	4605.0	7550.4	7563.9	5221.3
75°	322.8	324.7	324.0	324.4	357.1	448.0	973.1	3438.2	6105.0	6078.1	3999.8
77.5°	283.6	285.4	281.6	282.4	315.9	344.4	484.2	2406.8	4120.0	3929.6	2253.6
80°	239.6	241.2	239.6	242.3	275.1	260.0	281.6	1354.1	1821.7	1723.1	801.2
82.5°	181.1	187.6	192.3	203.0	226.6	184.9	188.4	527.3	554.7	528.2	245.7
85°	79.4	96.7	144.9	155.3	170.3	110.9	123.6	215.0	225.7	218.8	89.3
87.5°	20.8	22.7	71.6	90.2	94.4	50.1	64.4	97.8	103.2	97.8	29.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1036.3	1036.3	1036.3	1036.3	1036.3	1036.3	1036.3	1036.3	1036.3	1036.3	1036.3
2.5°	1047.8	1028.9	995.1	965.0	942.3	926.9	911.4	903.7	899.1	894.5	895.2
5°	1081.3	1043.1	985.0	943.8	920.6	906.0	898.4	895.2	893.4	888.7	888.7
7.5°	1131.8	1077.9	997.7	955.4	937.2	926.1	921.5	919.9	917.6	912.2	913.0
10°	1195.4	1119.8	1024.3	983.1	966.6	954.2	947.7	945.3	941.1	934.9	935.7
12.5°	1270.1	1171.9	1059.4	1016.2	996.2	979.6	968.8	962.3	954.9	946.9	947.3
15°	1351.8	1228.5	1097.1	1045.8	1018.6	995.5	978.1	966.9	955.4	945.3	945.0
17.5°	1434.6	1283.2	1126.1	1062.1	1025.1	994.6	971.1	953.8	939.6	927.3	926.1
20°	1523.9	1332.5	1142.2	1060.6	1012.8	976.5	945.3	923.7	908.0	895.7	893.7
22.5°	1614.8	1378.7	1144.9	1044.7	985.4	941.1	908.4	884.5	868.3	855.6	851.0
25°	1698.0	1414.6	1133.7	1014.3	947.3	899.5	867.6	843.2	830.2	815.1	810.5
27.5°	1773.9	1439.6	1111.3	975.4	904.5	857.5	827.5	806.6	792.4	780.8	777.0
30°	1842.1	1453.0	1074.8	929.1	860.6	817.8	792.4	778.1	765.8	751.2	748.5
32.5°	1906.9	1453.0	1027.8	878.7	817.1	782.8	767.8	758.9	745.1	730.8	726.9
35°	1971.6	1444.2	972.3	825.9	777.0	757.7	757.0	746.5	725.4	706.1	701.1
37.5°	2039.7	1426.1	909.9	776.6	744.2	746.5	753.2	730.0	700.0	672.6	665.3
40°	2116.8	1401.0	845.2	733.9	716.9	741.5	742.7	706.1	647.5	622.6	615.9
42.5°	2207.3	1376.0	785.1	696.1	695.3	726.5	723.1	654.5	619.5	606.7	603.3
45°	2326.4	1361.7	728.1	660.3	678.4	702.3	689.5	626.0	611.4	604.0	600.9
47.5°	2514.0	1369.1	675.7	631.8	661.4	678.0	627.1	614.4	604.0	595.2	592.1
50°	2749.0	1364.8	633.3	612.1	642.2	652.5	599.0	599.5	594.0	584.0	579.4
52.5°	2925.8	1331.7	606.0	600.9	625.3	607.5	581.3	584.7	582.0	567.4	562.5
55°	3096.5	1303.2	592.1	596.7	612.9	551.3	560.5	569.0	566.3	552.0	549.7
57.5°	3308.7	1297.8	583.6	597.9	602.5	523.2	540.5	551.7	549.7	543.6	542.4
60°	3568.8	1299.3	575.9	599.8	591.0	502.3	521.6	535.8	537.0	535.8	535.1
62.5°	3711.7	1257.4	556.7	594.4	570.5	484.2	501.9	522.8	523.2	525.5	525.0
65°	3590.3	1131.8	520.8	575.5	536.2	469.2	485.0	507.7	501.9	512.4	512.4
66°	3472.4	1059.4	503.1	563.2	521.6	463.4	479.6	500.1	492.7	506.9	506.9
67.5°	3231.6	937.2	471.1	537.0	500.8	455.3	473.4	487.3	477.3	498.5	497.0
70°	2791.8	725.0	406.8	477.7	466.5	443.4	464.9	461.9	447.2	479.6	473.4
72.5°	2353.7	550.9	326.7	399.8	414.5	428.3	453.0	429.5	411.0	433.7	420.3
75°	1826.4	414.1	258.1	310.9	350.2	404.9	438.8	392.2	365.5	363.3	355.9
77.5°	987.3	284.3	204.6	237.3	278.2	375.6	429.2	352.1	312.1	302.8	297.0
80°	391.0	184.9	148.7	179.9	194.5	333.2	406.1	305.5	257.3	248.1	239.2
82.5°	161.4	109.4	95.9	120.5	126.8	285.1	364.4	250.4	198.8	275.1	292.0
85°	69.3	60.1	57.0	62.4	71.6	199.9	290.1	191.1	214.5	191.4	152.1
87.5°	20.8	25.4	24.3	23.8	26.2	47.8	154.5	106.3	157.5	59.7	44.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)